

WHAT IS CLAIMED IS:

1. A tool holder (1) for an annular core bit (2, 2'), comprising a bit-side axial stop-surface (4); and an end-side splined profile (3) extending in a bit direction and having an outer thread (5) forming radial spline projections of the splined profile (3).
2. A tool holder according to Claim 1, wherein at least one of an outer thread dimension (A) and a dimension (I) of inner grooves of the splined profile (3) defines a radial guide dimension that extends over an axial guide length (X) which is larger than the radial guide dimension.
3. A tool holder according to Claim 1, wherein the splined profile (3) has a plurality of equidistantly circumferentially spaced, axial grooves (7).
4. A tool holder according to Claim 3, wherein the axial grooves (7) have a same circumferential width.
5. A tool holder according to Claim 3, wherein the splined profile has at least three axial grooves (7).

6. A tool holder according to Claim 5, wherein the splined profile has six axial grooves (7).

7. A tool holder according to Claim 1, further comprising a tool-side axial stop surface (8) axially spaced from the bit-side axial stop surface (4), and a sleeve (9) having an inner thread and provided on a tool-side of the tool holder, the sleeve (9) overlapping the tool-side stop surface (8) in a spaced relationship thereto.

8. A tool holder according to Claim 1, further comprising an axial conical surface (11) extending from the bit-side axial stop surface (4) in a tool direction.

9. A tool holder according to Claim 8, wherein the conical surface (11) is axially limited by the bit-side axial stop surface (4) and the tool-side axial stop surface (8).

10. A tool holder according to Claim 7, further comprising a rubber ring (15) provided between the sleeve (9) and the tool-side axial stop surface (8).

11. A tool assembly for core drilling, comprising an annular core bit (2); and a tool holder (1) for the annular core bit (2, 2') and having a bit-side axial stop

surface (4), and an end-side splined profile (3) extending in a bit direction and having an outer thread (5) forming radial spline projections of the splined profile (3), the annular core bit (2) having an inner splined profile (12) complementary to the end-side splined-profile (3) of the tool holder.